



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

THE
ASSURANCE MAGAZINE,
AND
JOURNAL
OF THE
INSTITUTE OF ACTUARIES.

VOL. IV.

LONDON:
CHARLES & EDWIN LAYTON, 150, FLEET STREET.
EDINBURGH: KENNEDY. NEW YORK: H. BAILLIÈRE, 290, BROADWAY.
PARIS: J. B. BAILLIÈRE, LIBRAIRE, RUE HAUTEFEUILLE.
HAMBURG: PERTHES, BESSER, & MAUKE.

1854.

[ENTERED AT STATIONERS' HALL.]

LONDON :
PRINTED BY CHARLES AND EDWIN LAYTON,
150, FLEET STREET.

CONTENTS OF VOLUME IV.

	PAGE
On the Inadequacy of existing Data for determining the Rate of Mortality among Select Lives. By William Spens, Esq., Manager of the Scottish Amicable Life Assurance Society	1
On the Sufficiency of the existing Companies for the Business of Life Assurance; with a List of the Companies at the end of 1852, their Guaranteed and Paid-up Share Capital, &c. By Samuel Brown, F.S.S.	10
The Stamp Duties on Contracts of Assurance	22
On the Calculation of Tables of Mortality. By M. A. Quetelet, Membre de l'Académie Royale de Belgique. (Translated from the original paper, printed by the Académie Royale de Belgique in t. xix., No. 10, <i>Des Bulletins</i>)	27
The Report from the Select Committee on Assurance Associations	31
On the Rate of Mortality amongst Europeans and their Descendants residing in the Island of Jamaica. By J. Marshall, Esq., Actuary of the Jamaica Mutual Life Assurance Company	39
Report of the Proceedings at the Statistical Congress held at Brussels, 19th to 22nd September, 1853. By Samuel Brown, F.S.S., one of the Honorary Secretaries of the Institute of Actuaries	93
On some Points connected with the Education of an Actuary. By H. W. Porter, Esq., Assistant Actuary to the Alliance Assurance Office	108
On the First Parliamentary Committee of Insurance; with Remarks illustrative of other Facts connected with the History of Insurance. By Frederick Hendriks, Actuary to the Globe Insurance Company	119
Report of the Select Committee on Assurance Associations (1853)	131
Account of a Correspondence between Mr. George Barrett and Mr. Francis Baily. By Professor De Morgan	185
On the Rates of Mortality prevailing amongst the Male and Female Lives assured in the Eagle Insurance Company during the 44 years ending 31 December, 1851. By Charles Jellicoe, Actuary to that Company	199
Decimal Numeration and Decimal Coinage. By William Thomas Thomson, F.R.S.E., F.I.A.	216
On Multiplication by aid of a Table of Single Entry. By J. J. Sylvester, M.A., F.R.S.	236
Operation of the Income Tax Enactment, as regards any Abatement on Payment of Single Premiums	239
On the Demonstration of Formulæ connected with Interest and Annuities. By Professor De Morgan	277
On a simple plan of Classifying the Policies of a Life Assurance Company, so as to possess, at any time, the means of forming a Table of the Mortality experienced in the Office. By Samuel Brown, F.S.S., one of the Honorary Secretaries of the Institute of Actuaries, and Actuary of The Mutual Life Assurance Society	282

	PAGE
On the Method of Approximating to the Values of Deferred and other Life Annuities, when payable Half Yearly and Quarterly. By Holmes Ivory, one of the Vice-Presidents of the Institute of Actuaries	291
On the First Parliamentary Committee on Insurance, with Remarks illustrative of other Facts connected with the History of Insurance, and a Review of some Recommendations of the Select Committee of the House of Commons on Assurance Associations, 1853. By Frederick Hendriks, Actuary to the Globe Insurance Company	300
NOTES AND QUERIES:—	
Method of obtaining an Approximation to the Rate of Interest in a Life Annuity; also to the Premium for Assuring one Life against another during their joint duration, and for n years longer	134
Fractions representing Accumulations of Annuities of 1, 1, 1, &c. for n years; 1, 2, 3, &c. for $n-1$ years; 1, 3, 6, &c. for $n-2$ years; &c.	243
FOREIGN INTELLIGENCE:—	
America:	
New York.—Accounts of the Mutual Life Insurance Company	360
Belgium:	
Statistical Congress to be held in Brussels	52
France:	
Summary of Fire Insurance Companies	135
Germany:	
Berlin.—Works published in reference to Legislation on Assurance	53
Gotha Life Assurance Bank.—Extract from the Report for 1852	<i>ib.</i>
Lubeck.—Summary of the Accounts for 1852 of the Marine Insurance Companies	57
New Business and Position of the Life Assurance Companies in the year 1852	136
Saxe Meiningen.—Fire Insurance Laws	58
Summary of the operations of proprietary Fire Insurance Companies for 1852 and 1853	364
Trieste.—Report of the Imp. Reg. Privileg. Riunione Adriatica di Sicurtà, in Trieste, for 1852-3	365
Jamaica:	
Report of the Jamaica Mutual Life Assurance Society, Kingston, 1st September, 1853	137
MISCELLANEA:—	
First Parliamentary Committee on Insurance	58
Mortality in the Metropolis for the Year 1853	262
Comparative Losses of Life from War and Pestilence	264
CORRESPONDENCE:—	
The Interest Question	61
The Results to be looked for on Tossing a dynamically true Coin	65
The Chances of Premature Death among Select Lives	66
On the Values of Reversions payable at the Instant of Death	70
The Interest Question	72
On the Settlement of Losses by Fire under Average Policies	73
On the Inadequacy of existing Data for determining the Rate of Mortality among Select Lives	139
On the same Subject	141
Government Interference with Assurance Companies in Germany	<i>ib.</i>
The Interest Question	243

Contents of Vol. IV.

v

PAGE

CORRESPONDENCE:—continued.

Calculation of the Odds of throwing any specified Number with Two, Three, Four, or more Dice	247
Determination of Surplus	249
Assurances on one Life against Another, during their joint Duration, and for n Years longer	250
The Interest Question	253
Medical Statistics of Life Assurance Companies	256
Formulæ expressing the value of all the Fines payable on the Renewal of Copyhold Leases	367
The Question of Interest in Policies upon the Life of Another	368
Decimal Numeration and Decimal Coinage	370

REVIEWS OF NEW WORKS:—

Annals, Anecdotes, and Legends: a Chronicle of Life Assurance. By John Francis, Author of <i>The History of the Bank of England, &c.</i>	75
An Investigation of the Deaths in the Standard Assurance Company. By Dr. Robert Christison	76
Medical Statistics of Life Assurance—Observations on the Causes of Death among the Assured of the Scottish Widows' Fund and Life Assurance Society, from 1846 to 1852. By Dr. James Begbie	ib.
The New Supplies of Gold: Facts and Statements relative to their actual Amount, and their present and probable Effects. Revised Edition, with five additional Chapters. By William Newmarch	78
Works recently published	80
On a Theory of the Conjugate Relations of two Rational Integral Functions, comprising an Application to the Theory of Sturm's Functions, and that of the greatest Algebraical Common Measure. By J. J. Sylvester, Esq., M.A., F.R.S., Barrister-at-Law	142
A Treatise upon the Law of Life Assurance upon the Constitution of Assurance Companies, the construction of their Deeds of Settlement, the Sale of Reversionary Interests, and Equitable Liens arising in connection with Life Policies: with an Appendix of Precedents for the Assignment of Policies by way of sale, mortgage, and settlement; Notes of Cases; Statutes; and an Index of Private Acts obtained by Insurance Companies. By Charles John Bunyon, M.A., of the Inner Temple, Esq., Barrister-at-Law	145
The Results of the Census of Great Britain in 1851; with a description of the Machinery and Processes employed to obtain the Returns: also an Appendix of Tables of Reference. By Edward Cheshire, Assistant Secretary to the Institute of Actuaries, Assistant Secretary to the Statistical Society, and one of the Secretaries of the Statistical Section of the British Association for the Advancement of Science	147
Twelfth Report of the Registrar General of Births, Deaths, and Marriages, in England; and Letter addressed to that Officer by William Farr, Esq.	266
Sickness and Mortality in Friendly Societies. Mr. Alexander Glen Finlaison's Report. Ordered by the House of Commons to be printed, 16 August, 1853	269
Work recently published	271

REPORTS OF ASSURANCE COMPANIES:—

Gresham—Hope Mutual—Householders' and General—Industrial and General	80 to 84
Industrial and General—Kent Mutual Life—Kent Mutual Fire—Law Life—Law Property—Legal and Commercial Life—Legal and Commercial Fire—Life Association of Scotland—Liverpool and London—London and County—London and Provincial—London Indisputable—London Life—London Monetary—London Mutual	154 to 182

	PAGE
REPORTS OF ASSURANCE COMPANIES:—<i>continued.</i>	
Clerical, Medical, and General Life—Colonial Life—Crown Life—Equitable Life—London Life—London Mutual Life and Guarantee—Marine Life and Casualty	375 to 382
INSTITUTE OF ACTUARIES:—	
Proceedings of the Institute	85, 274
Questions put at Second Year's Examination	272
Plan of Third Year's Examination	274
Correspondence with Professor De Morgan	275
ORIGINAL TABLES	88, 383
